

DENON

INTEGRATED AMPLIFIER
PMA-500AE

OPERATING INSTRUCTIONS
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
ISTRUZIONI PER L'USO
INSTRUCCIONES DE FUNCIONAMIENTO
GEBRUIKSAANWIJZING
BRUKSANVISNING

SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

**CAUTION:**

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.

• ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Entspricht den Verordnungen der Direktive 73/23/EEC, 89/336/EEC und 93/68/EEC.

• DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. D'après les dispositions de la Directive 73/23/EEC, 89/336/EEC et 93/68/EEC.

• DICHIARAZIONE DI CONFORMITÀ

Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. In conformità con le condizioni delle direttive 73/23/EEC, 89/336/EEC e 93/68/EEC.

QUESTO PRODOTTO E' CONFORME

AL D.M. 28/08/95 N. 548

• DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:

EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3.

Siguiendo las provisiones de las Directivas 73/23/EEC, 89/336/EEC y 93/68/EEC.

• EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:

EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3.

Volgens de bepalingen van de Richtlijnen 73/23/EEC, 89/336/EEC en 93/68/EEC.

• ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:

EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3.

Enligt stadgarna i direktiv 73/23/EEC, 89/336/EEC och 93/68/EEC.

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, trennen Sie bitte den Netzstecker von der Wandsteckdose ab.

Die Hauptstecker werden verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

ATTENZIONE:

Per scollegare definitivamente questo prodotto dalla rete di alimentazione elettrica, togliere la spina dalla relativa presa.

La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación se utiliza para interrumpir por completo el suministro de alimentación a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

VOORZICHTIGHEID:

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.

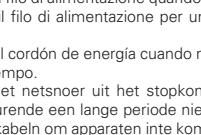
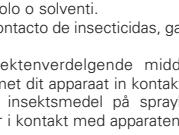
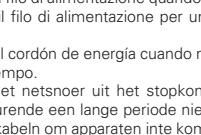
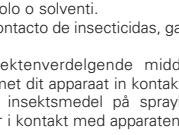
De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.

Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA

 <ul style="list-style-type: none"> Handle the power cord carefully. Hold the plug when unplugging the cord. Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. Maneggiate il filo di alimentazione con cura. Agite per la spina quando scollegate il cavo dalla presa. Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. 	 <ul style="list-style-type: none"> Do not obstruct the ventilation holes. Die Belüftungsöffnungen dürfen nicht verdeckt werden. Ne pas obstruer les trous d'aération. Non coprite i fori di ventilazione. No obstruya los orificios de ventilación. De ventilatieopeningen mogen niet worden bebllokkeerd. Täpp inte till ventilationsöppningarna. 	 <ul style="list-style-type: none"> Never disassemble or modify the apparatus in any way. Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern. Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. Non smontate mai, né modificate l'unità in nessun modo. Nunca desarme o modifique el equipo de ninguna manera. Nooit dit apparaat demonteren of op andere wijze modifiëren. Ta inte isär apparaten och försök inte bygga om den. 	
 <ul style="list-style-type: none"> Handle the power cord carefully. Hold the plug when unplugging the cord. Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. Maneggiate il filo di alimentazione con cura. Agite per la spina quando scollegate il cavo dalla presa. Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. 	 <ul style="list-style-type: none"> Do not obstruct the ventilation holes. Die Belüftungsöffnungen dürfen nicht verdeckt werden. Ne pas obstruer les trous d'aération. Non coprite i fori di ventilazione. No obstruya los orificios de ventilación. De ventilatieopeningen mogen niet worden bebllokkeerd. Täpp inte till ventilationsöppningarna. 	 <ul style="list-style-type: none"> Never disassemble or modify the apparatus in any way. Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern. Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. Non smontate mai, né modificate l'unità in nessun modo. Nunca desarme o modifique el equipo de ninguna manera. Nooit dit apparaat demonteren of op andere wijze modifiëren. Ta inte isär apparaten och försök inte bygga om den. 	

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning chemical waste.

This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries.

**HINWEIS ZUM RECYCLING:**

Das Verpackungsmaterial dieses Produktes ist für zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte geben Sie die Batterien gemäß örtlichen Bestimmungen an den Sammelstellen oder Sondermüllplätzen ab.

Dieses Produkt zusammen mit den Zubehörteilen ist das geltende Produkt der WEEE-Direktive, davon ausgenommen sind die Batterien.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer de tout matériau conformément aux règlements de recyclage locaux.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations locales.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux règlements locaux concernant les déchets chimiques.

Ce produit et les accessoires emballés ensemble sont des produits conformes à la directive DEEE sauf pour les piles.

NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per smaltire l'unità, osservare la normativa in vigore nel luogo di utilizzo.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING WAT BETREFT HET RECYCLEREN:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

EN KOMMENTAR OM ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser.

När du kasseras enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall.

Denna apparat och de tillbehör som levereras med den är de som uppfyller gällande WEEE-direktiv, med undantag av batterierna.

Getting Started

Thank you for choosing the DENON PMA-500AE Pre-main Amplifier. This remarkable component has been engineered to provide superb sound, as well as providing outstanding high fidelity reproduction of your favorite music sources.

As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

Contents

Getting Started

Accessories	1
Cautions on installation	1
Cautions on using mobile phones	1
Before using	1
About the remote control unit	1
Inserting the batteries	2
Operating range of the remote control unit	2
Part names and functions	
Front panel	2, 3
Rear panel	3
Remote control unit	3

Connections

Connecting the speakers	4
Connecting the Audio Equipment	4
Cable indications	4
Connecting Players and Speakers	5
Connecting Recorders	5
Connecting the power supply cord	5

Operation

Preparations prior to playing	6
Starting playback	6
Starting recording	6
Copying cassette tapes	6

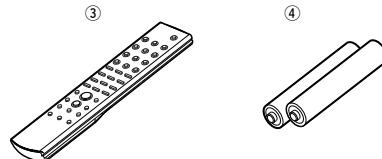
Troubleshooting	7
-----------------------	---

Specifications	7
----------------------	---

Accessories

Check that the following parts are attached in addition to the main unit:

- ① Operating instructions 1
- ② Service station list 1
- ③ Remote control unit (RC-1022) 1
- ④ Batteries (R03/AAA) 2



Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.

Before using

Pay attention to the following before using this unit:

• **Moving the set.**

To prevent short-circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the unit.

• **Before turning the power switch on.**

Check once again that all connections are correct and that there are not problems with the connection cables. Always set the power switch to the standby position before connecting and disconnecting connection cables.

• **Store the operating instructions in a safe place.**

After reading the operating instructions, store them in a safe place as they could come in handy in the future.

• **Whenever the power switch is in the STANDBY state, the unit is still connected to AC line voltage.**

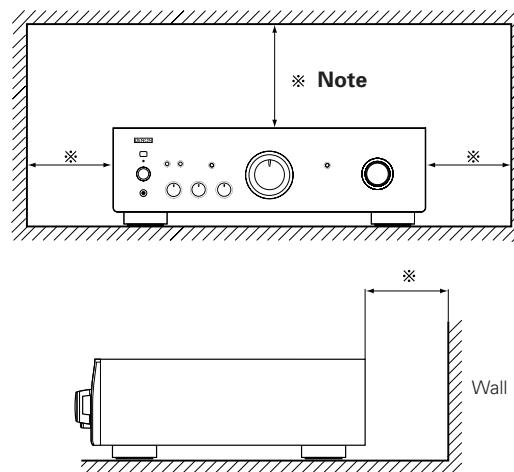
Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation.

• **Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.**

Cautions on installation

Note:

For heat dispersal, do not install this unit in a confined space such as a bookcase or similar enclosure.



About the remote control unit

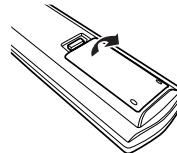
The included remote control unit can be used to control DENON CD players, tape decks and tuners.

※ Some products may not be operable.

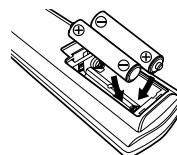
Getting Started

Inserting the batteries

① Remove the remote control unit's rear cover.



② Set two R03/AAA batteries in the battery compartment in the indicated direction.



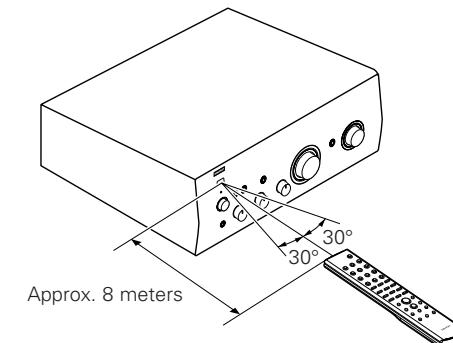
③ Put the rear cover back on.

Notes on batteries:

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the unit. (The attached batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the “+” and “-” marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote if it will not be in use for long periods.

Operating range of the remote control unit

- Point the remote control unit at the remote sensor when operating it.
- The remote control unit can be used from a distance of up to about 8 meters, at a horizontal angle of up to 30° with respect to the sensor.



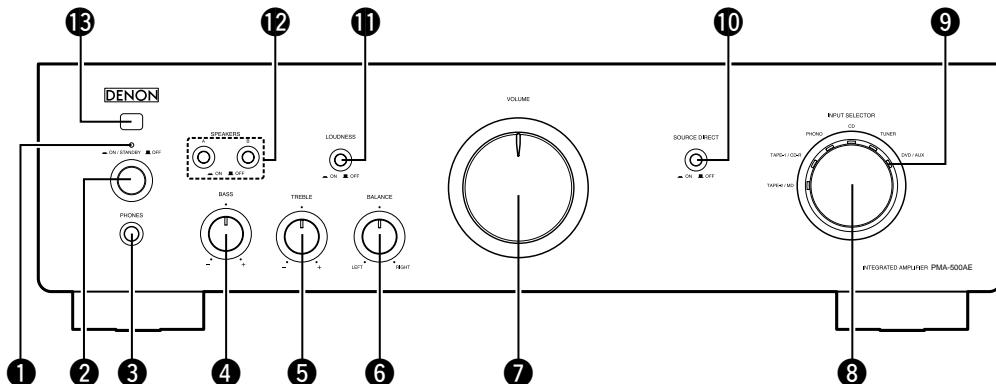
NOTE:

- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.

Getting Started

Part names and functions

Front panel



① Power indicator

Changes as shown below according to this unit's status.

- For several seconds after the power is turned on: Red (blinking)
- When the power is on: Green
- When in standby: Red
- When the power is off: Off

② Power switch (■ON/STANDBY ■OFF)

When set to “■ON/STANDBY”, the power turns on, and when set to “■OFF”, the power turns off.

③ Headphone jack (PHONES)

④ BASS control knob

⑤ TREBLE control knob

⑥ BALANCE control knob

⑦ VOLUME control knob

⑧ INPUT SELECTOR knob

Use this to select the source that you wish to listen to.

⑨ Input indicator

The selected input is shown with an orange indicator.

⑩ SOURCE DIRECT switch

When set to “■ON”, the signals do not pass through the tone adjustment circuitry (bass, treble, balance and loudness), resulting in playback with higher sound quality.

When set to “■OFF”, the sound can be adjusted to your tastes.

⑪ LOUDNESS switch

When listening with the volume turned low, set this to “■ON” to amplify the bass and treble sound that is hard to hear when the volume is low and achieve a more natural sound.

⑫ SPEAKERS A/B switches

- When A (or B) is set to “■ON”, sound is produced from the speakers connected to the A (or B) speaker output terminals.
- When both A and B are set to “■ON”, sound is produced from the speakers connected to both the A and B speaker output terminals.
- When both A and B are set to “■OFF”, no sound is produced from the speakers. Use this when listening over headphones.

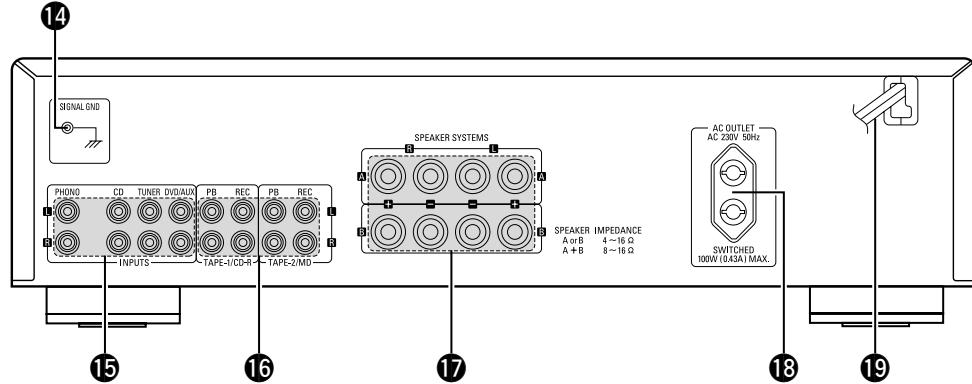
⑬ Remote control sensor

Getting Started



- When the **VOLUME** control knob is set just beyond the "12 o'clock" position (over halfway), the adjustments that can be made with the **BASS** and **TREBLE** controls is decreased.
- When the **VOLUME** control knob is set to maximum or turned fully clockwise, the base and treble can no longer be adjusted.

Rear panel



⑯ SIGNAL GND (ground) terminal

Connect the ground wire from your turntable here.



- Short-circuiting plugs are inserted into the PHONO input terminals. Remove these when connecting a turntable. Be sure to keep it for future use.

⑯ Input terminals (INPUTS)

Connect your source equipment here.

⑯ Recording input/output terminals (TAPE-1/CD-R and TAPE-2/MD)

Connect your recording equipment here.

⑯ Speaker system terminals (SPEAKER SYSTEMS)

Connect your speakers here.

⑯ AC OUTLET

Use this as the power outlet for other audio devices. Check equipment power requirement ratings before use (see the ratings as marked on the rear panel). If in doubt consult with your dealer or DENON distributor.

⑯ Power supply cord

Getting Started

Remote control unit

Amplifier operating buttons

POWER button

This operates the main unit's power.

Input source selector buttons

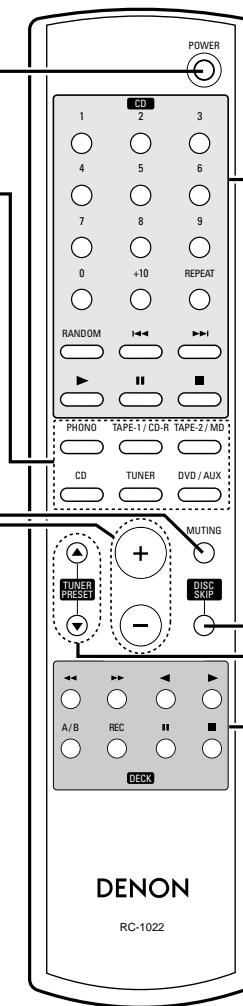
These switch the input source.

MUTING button

Press this to mute the sound. The power indicator on the main unit blinks red. Press again to produce sound.

Volume adjust buttons

These adjust the volume.



DENON product operating buttons

CD player block

- 0~9, +10 : Number buttons
- REPEAT : Repeat playback
- RANDOM : Random playback
- ◀, ▶ : Search
- ▶ : Play
- II : Pause
- : Stop

CD player block

- DISC SKIP : This button selects the disc, when using a DENON multi-disc CD player.

TUNER block

- TUNER PRESET ▲, ▼ : These switch the preset channel.

Tape deck block

- ◀ : Rewind
- ▶ : Fast-forward
- ◀ : Reverse play
- ▶ : Forward play
- A/B : Switch between decks A and B for double decks
- REC : Record
- II : Pause
- : Stop



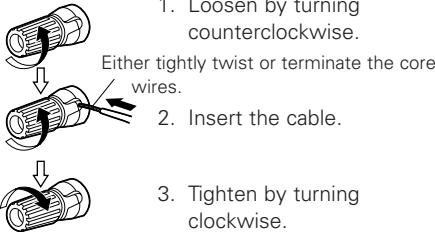
- The included remote control unit can be used to operate DENON CD players, tape decks and tuners.
- When using it, also refer to the operating instructions of the other devices.
- Some products may not be operable.

Connections

Connecting the speakers

Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖).

Connecting the speaker cables



NOTE:
When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel and screws.

NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

Speaker impedance

Use speakers with impedances within the ranges shown below according to their usage conditions.

Speakers used	Impedance
A or B	4 ~ 16 Ω/ohms
A and B	8 ~ 16 Ω/ohms

Note on speaker impedance

When using speakers with an impedance below the designated value (for example 4 Ω/ohms), playing for long periods of time with the volume high could cause the temperature to rise, activating the protection circuit.

When the protection circuit is activated, the output to the speakers is cut off and the power indicator blinks. If this happens, unplug the power cord, wait for the set to cool off and improve ventilation around the unit. Also check the wiring of the input cables and the speaker cables. After doing this, plug the power cord back in and turn the unit's power back on.

If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

Connecting the Audio Equipment

NOTE:

- Do not plug in the power supply cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with speaker cables. Doing so could result in humming or noise.
- Do not turn up the volume when no turntable is connected to the PHONO input terminals. Doing so will cause humming or noise.
When not connecting a turntable, leave the included short-circuiting pin plug plugged in.

Cautions on playing SA sources:

When regular speakers not compatible with SA sources (DVD Audio discs, Super Audio CDs and other sources including treble components above the audible range), set the properties of the player (DVD Audio player, Super Audio CD player, etc.) for use with regular speakers (or amplifiers).

The speakers may be damaged if the volume is set too high when playing SA sources.

For instructions on setting the player, refer to the operating instructions included with the player.

Cable indications

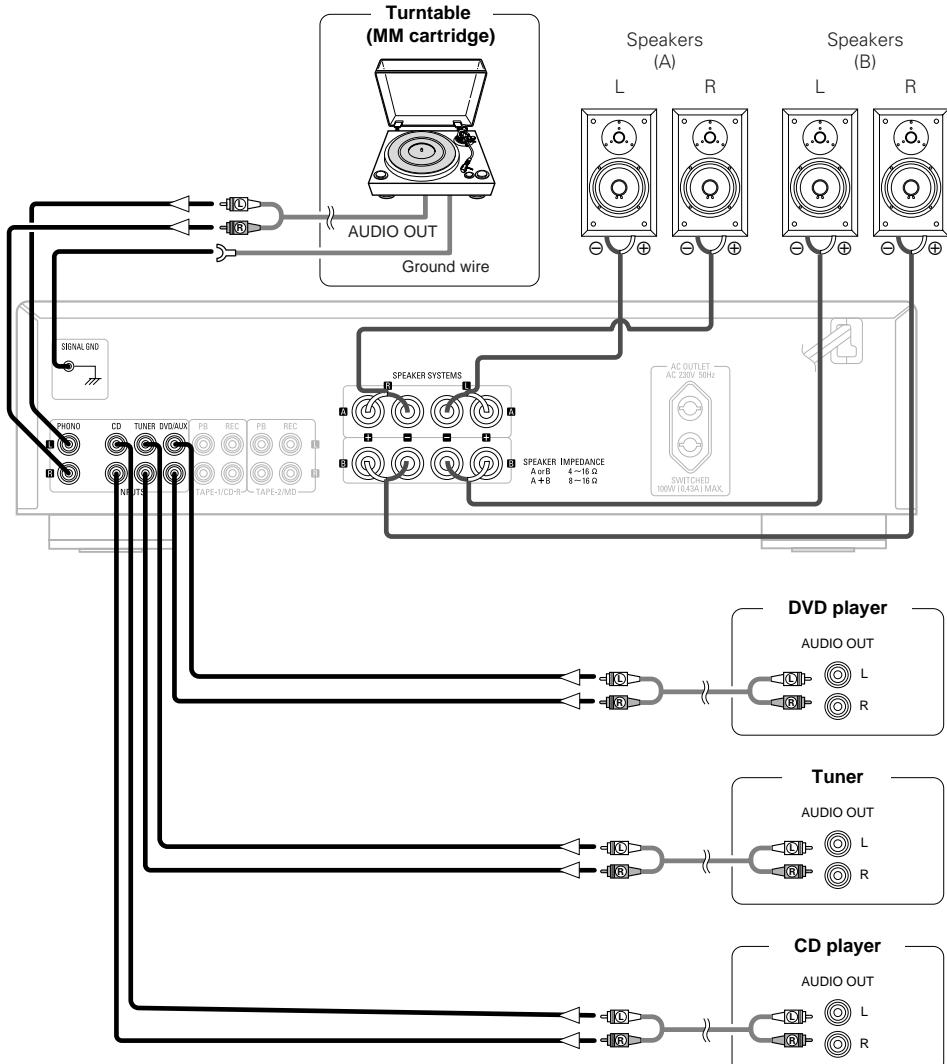
The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied).

Audio cable	Signal direction
Analog connections (Stereo) (White) (L) — (L) — (Red) (R) — (R) — Pin-plug cable	Audio signal — (L) — IN OUT OUT IN

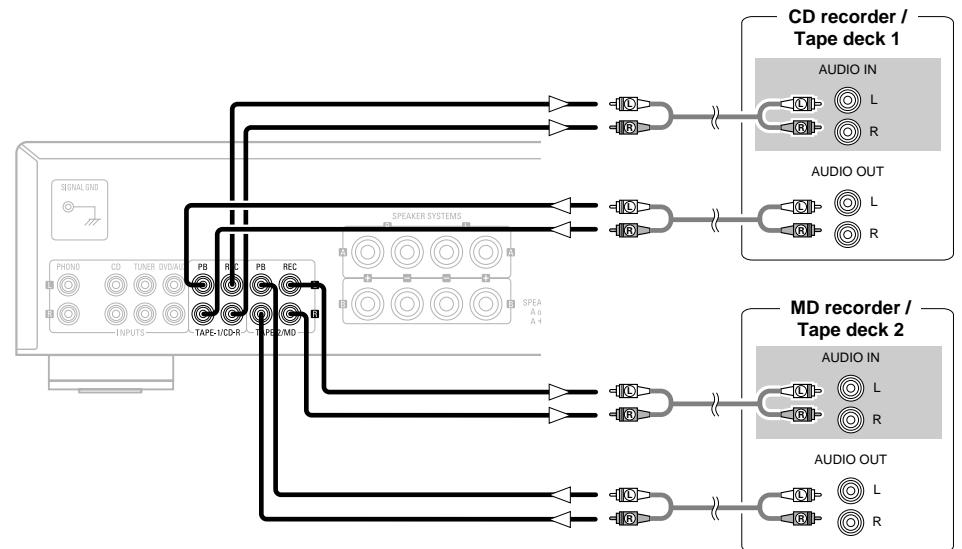
Connections

Connecting Players and Speakers

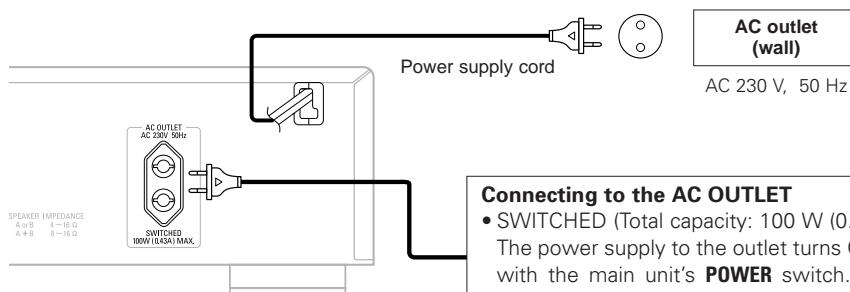
- Only Turntables fitted with a MM (Moving Magnet) cartridge can be used with this unit. If you have an MC (Moving Coil) cartridge you will need to use a commercially available head amplifier or step-up transformer.
- If humming or other noise is generated when the ground wire is connected, disconnect it.



Connecting Recorders



Connecting the power supply cord

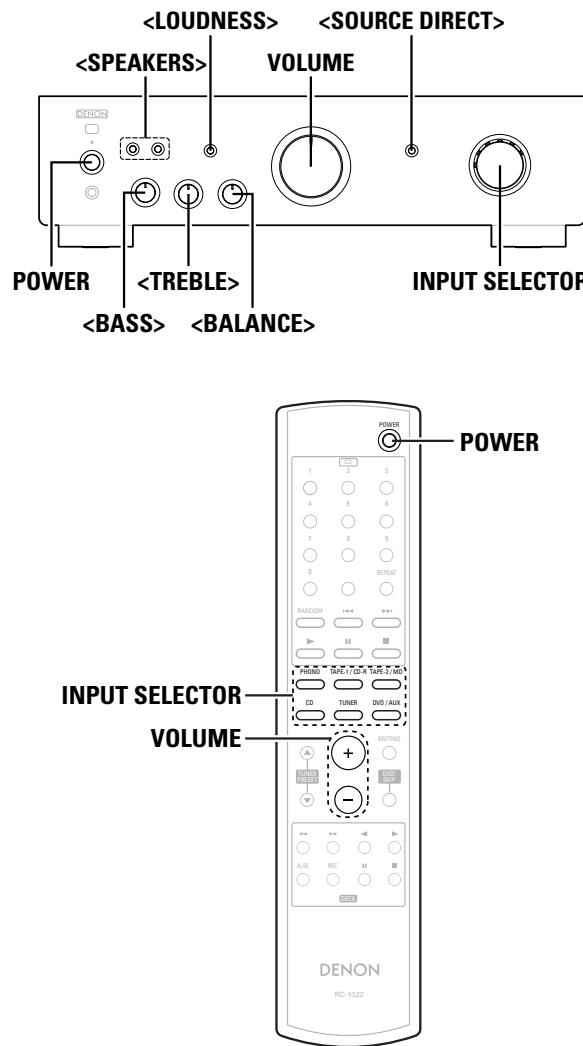


Connecting to the AC OUTLET

- SWITCHED** (Total capacity: 100 W (0.43 A)): The power supply to the outlet turns ON and OFF with the main unit's **POWER** switch. Make sure the total power consumption of the connected devices does not exceed 100W (0.43 A).

NOTE:

- Only use the AC OUTLET for audio equipment. Never use it for hair dryers, TVs or other electrical appliances.
- Insert the plugs securely. Incomplete connections will result in the generation of noise.


About the button names in this explanation

< > : Buttons on the main unit
 [] : Buttons on the remote control unit

Button name only :

Buttons on the main unit and remote control unit

Operation

Preparations prior to playing

- 1 Set the volume to the minimum by using **VOLUME**.
- 2 Set **<SOURCE DIRECT>** and **<LOUDNESS>** to “OFF”.
- 3 Set **<BALANCE>**, **<TREBLE>** and **<BALANCE>** to the center position.
- 4 Press **<SPEAKERS>** A or B depending on the terminals to which speakers are connected.
- 5 Turn on the power by pressing **POWER**.
 - The power indicator blinks red for several seconds, then lights green.

Starting playback

- 1 Use **INPUT SELECTOR** to select the source to be played.
 - Select one of the sources among the following: TAPE-2/MD, TAPE-1/CD-R, PHONO, CD, TUNER and DVD/AUX.
 - The input indicator for the selected source lights.
- 2 Play the selected source.
- 3 Adjust the volume by using **VOLUME**.
- 4 Adjust the tone with **<BALANCE>**, **<TREBLE>**, **<BALANCE>** and **<LOUDNESS>**.

※ If there is no need to adjust the tone, press **<SOURCE DIRECT>**.

Starting recording

- 1 Turn **<INPUT SELECTOR>** to select the source to be recorded.

PHONO, CD, TUNER, DVD/AUX:
 Select the device connected to the recording terminals to record.
- 2 Set the recorder to the record mode.
- 3 Start playing the source to be recorded.

Copying cassette tapes

- 1 Turn **<INPUT SELECTOR>** and select “TAPE-1/CD-R” (or “TAPE-2/MD”).

TAPE-1/CD-R, TAPE-2/MD:
 Select this to record from tape deck 1 onto tape deck 2 (or from tape deck 2 onto tape deck 1).
- 2 Set the device connected to the TAPE-1/CD-R (or TAPE-2/MD) terminal to the record mode.
- 3 Start playback on the device connected to the TAPE-2/MD (or TAPE-1/CD-R) terminal.



• When performing these operations, also refer to the operating instructions of the other devices.

Troubleshooting

Check the following before assuming there is a problem with the set

1. Are all connections proper ?
2. Is the set being operated as described in the operating instructions ?
3. Are the speakers and input components being operated properly ?

If the set does not seem to be operating properly, check the points listed below. If these points do not apply, the set may be damaged. Turn off the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
When the power is turned on, the power indicator does not light and no sound is produced.	• The power supply cord's plug is not fully plugged in.	• Make sure the unit is correctly plugged in and switched on at the mains socket.	5
The power indicator lights but no sound is produced.	• The speaker cables are not fully connected. • The device you want to listen to has not been selected. • The volume control is set to minimum. • The input cable is not fully connected. • The speaker selector button is set to "OFF".	• Connect securely. • Insure the correct input is selected. • Set to an appropriate level. • Connect securely. • Ensure the SPEAKER A or B buttons are set to "ON" as appropriate.	4, 5 2, 6 2, 6 5 2, 6
Sound is only produced from the left or right speaker(s).	• The speaker cables are not fully connected. • The input cable is not fully connected. • The left/right balance is off.	• Connect securely. • Connect securely. • Adjust to a proper balance using the balance control knob.	4, 5 5 2
For stereo sound, the positions of the instruments are inverted left/right.	• The connections of the speakers or input cables are inverted.	• Check the connections to be sure that left is connected to left, right to right.	4, 5
Humming sound is heard in the music when playing records.	• The player's ground wire is not connected. • The cables are not fully connected to the PHONO terminals. • Influence from a TV or VCR near the player.	• Connect securely. • Connect securely. • Try changing the positions in which the devices are installed.	3, 5 3, 5 —
Howling is produced along with the music if the volume is too high when playing records.	• The player and speakers are too close together. • The vibrations from the speakers are being transmitted to the player through the floor.	• Install the player and speakers as far from each other as possible. • Use cushions, etc., to absorb the speakers' vibrations.	— —
When playing a record, the sound is distorted.	• The needle pressure is not proper. • There is dirt on the tip of the needle. • The cartridge is defective.	• Adjust to a proper needle pressure. • Check the tip of the needle. • Replace the cartridge.	— — —

Specifications

Power amplifier section

Rated Output Power:

2-channel driving (CD → SP OUT)

45 W + 45 W (8 Ω/ohms, 20 Hz ~ 20 kHz, T.H.D. 0.07 %)

70 W + 70 W (4 Ω/ohms, DIN, 1 kHz, T.H.D. 0.7 %)

0.02 % (Rated output: -3 dB), 8 Ω/ohms, 1 kHz

Speaker A or B: 4 ~ 16 Ω/ohms

A + B: 8 ~ 16 Ω/ohms

Suited for headphones/stereo headphones

Pre amplifier section

Equalizer amplifier output: (REC OUT terminals)

Input Sensitivity/Input Impedance:

150 mV
PHONO (MM): 2.5 mV/47 kΩ/kohms
CD, TUNER, DVD/AUX, TAPE-1/CD-R, TAPE-2/MD:

100 mV/47 kΩ/kohms (SOURCE DIRECT OFF)

100 mV/16 kΩ/kohms (SOURCE DIRECT ON)

20 Hz ~ 20 kHz±0.5 dB

RIAA Deviation:

PHONO (MM):

2.5 mV/47 kΩ/kohms

Overall performance

SN Ratio (A network):

PHONO (MM): 84 dB
(With input terminals short-circuited, 5 mV input signal)

CD, TUNER, DVD/AUX, TAPE-1/CD-R, TAPE-2/MD:
105 dB (input terminals short-circuited)

100 Hz±8 dB

10 kHz±8 dB

100 Hz: +6 dB, 10 kHz: +6 dB

Tone control (bass):

PHONO (MM): 84 dB

LOUDNESS:

(With input terminals short-circuited, 5 mV input signal)

General

Power outlet:

1 switched outlet, total capacity 100 W (0.43 A)

Power Supply:

AC 230 V, 50 Hz

Power Consumption:

185 W (IEC)

Dimensions:

434 (W) x 121 (H) x 307 (D) mm (including protruding parts)

Net Mass:

6.5 kg

Remote control unit (RC-1022)

Remote control type:

Infrared pulse

Power supply:

R03/AAA Type (2 batteries)

External dimensions:

49 (W) x 220 (H) x 21 (D) mm

Mass:

120 g (including batteries)

* For improvement purposes, specifications and functions are subject to change without advanced notice.

DENON

TOKYO, JAPAN
www.denon.com

Denon Brand Company, D&M Holdings Inc.
Printed in China 00D 511 4554 007